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10/501511

DT15 Rec'd PCT/PTO 15 JUL 2004

New Set of Claims

- 1) Basic suspension of basic oxides or hydroxides or carbonates chosen in the group consisting of: Li_2O , Na_2O , K_2O , MgO , CaO , SnO , SnO_2 , PbO , Pb_2O , Pb_2O_3 , BiO , Bi_2O_3 , Sb_2O_3 ; LiOH , NaOH , KOH , $\text{Mg}(\text{OH})_2$, $\text{Ca}(\text{OH})_2$, $\text{Al}(\text{OH})_3$, $\text{Sn}(\text{OH})_2$, $\text{Sn}(\text{OH})_4$, $\text{Pb}(\text{OH})_2$, $\text{Bi}(\text{OH})_3$, $\text{Sb}(\text{OH})_3$, Li_2CO_3 , Na_2CO_3 deca-hydro, Na_2CO_3 , K_2CO_3 , MgCO_3 , CaCO_3 , PbCO_3 , anhydro and basic, $\text{Bi}_2\text{O}_2\text{CO}_3$ or their mixtures, wherein the suspended particles have dimensions comprised between 10nm up to 2 μm and the solvent are chosen in the group of polar solvents consisting of: water, ethyl ether, acetone and alcohols and their mixtures, wherein the suspended particles have dimensions comprised between 10nm up to 2 μm .
- 2) Basic suspensions according to claim 1 wherein the suspended particles have dimensions comprised between 50nm up to 500nm.
- 3) Basic suspension according to claims 1. and 2 wherein the alcohols are chosen in the group consisting of: methanol, ethanol, 1-propanol, 2-propanol, butanol, pentanol, and their mixtures.
- 4) Basic suspension according to Claims 1 – 3 consisting of: $\text{Ca}(\text{OH})_2$ hydroxide particles suspended in 1% water and 99% 1-propanol or 2-propanol (w/w).
- 5) Process for the preparation of the suspensions according to Claims 1 – 4 by vigorous stirring of the particles to be suspended in the appropriate solvent (or solvents mixture), if necessary with the aid of a sonicator or ultra-sonicator or with the aid of a homogeniser

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27-01-2004

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- 6) Process according to Claim 5 wherein the particles to be suspended are obtained by homogeneous phase reaction at high temperature.
- 7) Process according to Claim 10 wherein the particles to be suspended are obtained by slaking of the oxides.
- 5 8) Process according to Claim 10 wherein the particles to be suspended are obtained by mixing two water in oil microemulsions, giving a low solubility salt in nanosized aqueous core.
- 9) Use of the suspension according to claims 1 - 4 in paper deacidification processes, as neutralising agent and also as alkaline reservoir.
- 10 10) Process for paper deacidification wherein suspensions according to claims 1 - 4 are applied to the papers to be deacidified by: spraying, immersing, brushing, or by mass-deacidification process.
- 11) Use of the suspensions according to Claims 1 - 4 in processes for the consolidation of porous materials.